

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Longshot Oil, LLC
Well Name/Number: Fulton 1E-10
Location: NE SE Section 10 T24N R7E
County: Chouteau, **MT;** **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time.

Unusually deep drilling (high horsepower rig): No, single derrick drilling rig, 2000' TD

Possible H2S gas production: None anticipated.

In/near Class I air quality area: No, no Class I air quality area.

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

☒ Air quality permit (AQB review)

☐ Gas plants/pipelines available for sour gas

☐ Special equipment/procedures requirements

☐ Other: _____

Comments: No special concerns – using small rig to drill to 2000' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater or freshwater mud system.

High water table: No high water table anticipated.

Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral tributary drainage to the Teton River, about 1/4 of a mile to the north from this location. The Teton River is about 1/2 of a mile to the northeast from this location.

Water well contamination: No, no water well within a 1 mile radius from this well location. Surface hole will be drilled with freshwater and surface casing run and cemented from 250' to surface. Mainhole will be drilled with freshwater and freshwater mud system. If productive 7" production casing will be run and cemented to surface.

Porous/permeable soils: No, silty sandy clay soils.

Class I stream drainage: No Class I stream drainage.

Mitigation:

☐ Lined reserve pit

☒ Adequate surface casing

☐ Berms/dykes, re-routed drainage

☐ Closed mud system

☐ Off-site disposal of solids/liquids (in approved facility)

☐ Other: _____

Comments: 250' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. 7" production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, stream crossings anticipated.

High erosion potential: No, small cut, up to 9.5' and small fill, up to 8.0', required.

Loss of soil productivity: No, location will be restored after drilling if nonproductive and if productive unused portion of the drillsite will be reclaimed.

Unusually large wellsite: No, small drillsite, 150'X350' location size required.

Damage to improvements: Slight, surface use is cultivated field (CRP)

Conflict with existing land use/values: Slight

Mitigation

☐ Avoid improvements (topographic tolerance)

☐ Exception location requested

☒ Stockpile topsoil

☐ Stream Crossing Permit (other agency review)

☒ Reclaim unused part of wellsite if productive

☐ Special construction methods to enhance reclamation

☐ Other _____

Comments: Surface access will be over existing State Highway #87, existing county road, Elbow Ranch Road, existing farm road and into Fiedler well location. About 840' of new access will be built into this location from existing Fiedler well location. Cuttings will be buried in the earthen pits. Fluids will be allowed to evaporate. Pit will be backfilled when dry. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence is about 2.5 miles to the southwest from this location. The town of Fort Benton, Montana is about 7.2 miles to the southeast from this location.

Possibility of H₂S: None anticipated.

Size of rig/length of drilling time: Small drilling rig/short 3 to 4 days drilling time

Mitigation:

☐ Proper BOP equipment

☐ Topographic sound barriers

☐ H₂S contingency and/or evacuation plan

☐ Special equipment/procedures requirements

☐ Other: _____

Comments: Adequate surface casing and operational BOP should mitigate any problems.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None close by.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: Threatened or endangered species are the Pallid Sturgeon and Black-Footed Ferret. Candidate species are the Greater Sage Grouse and Sprague's Pipit. NH Tracker website lists the following as species of concern: Ferruginous Hawk, Bald Eagle and Greater Short-horned Lizard.

Mitigation:

- ☐ Avoidance (topographic tolerance/exception)
- ☐ Other agency review (DFWP, federal agencies, DSL)
- ☐ Screening/fencing of pits, drillsite
- ☐ Other: _____

Comments: No concerns. Private CRP surface lands.

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified

Mitigation

- ☐ avoidance (topographic tolerance, location exception)
- ☐ other agency review (SHPO, DSL, federal agencies)
- ☐ Other: _____

Comments: No concerns. On private CRP surface lands.

Social/Economic

(possible concerns)

- ☐ Substantial effect on tax base
- ☐ Create demand for new governmental services
- ☐ Population increase or relocation

Comments: No concerns.

Remarks or Special Concerns for this site

Well is a 2000' Swift Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impact expected. Some short term surface impacts will occur, but will be mitigated in time.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): /s/Steven Sasaki

(title): Chief Field Inspector

Date: June 30, 2011

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC
website

(Name and Agency)

Water wells in Chouteau County

(subject discussed)

June 30, 2011

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES

MONTANA COUNTIES, Chouteau County

(subject discussed)

June 30, 2011

(date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)

Heritage State Rank= S1, S2, S3, T24N R7E

(subject discussed)

June 30, 2011

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____